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PATENT APPLICATION

ATTORNEY DOCKET NO. 200308240-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Krishnamoorthy et al.

Confirmation No.: 1777

Application No.: 09/318,692

Examiner: Choudhary, A.

Filing Date: May 25, 1999

Group Art Unit: 2153

Title: System and Method for Securely Downloading Firmware to Storage Devices and
Managing Devices in a Client Server Architecture

Mail Stop Amendment
Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

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OCT 05 2004

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- () Response/Amendment () Petition to extend time to respond
() New fee as calculated below () Supplemental Declaration
(X) No additional fee
(X) Other: Supplemental Declaration under 37 CFR 1.131 (fee \$)

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS		MINUS		= 0	X \$18	\$ 0
INDEP. CLAIMS		MINUS		= 0	X \$86	\$ 0
[] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$290	\$ 0
EXTENSION FEE	1ST MONTH \$110.00	2ND MONTH \$420.00	3RD MONTH \$950.00	4TH MONTH \$1480.00		\$ 0
OTHER FEES						\$
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

Charge \$ 0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Krishnamoorthy et al.

By 

Paul W. Mitchell

Attorney/Agent for Applicant(s)
Reg. No. 44,453

Date: 10-05-2004

(X) hereby certify that this paper is being transmitted
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Typed Name: Carlin Taylor

Signature: 

Telephone No.: (509) 324-9256

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 IN A CLIENT SERVER ARCHTECTURE

DECLARATION UNDER 37 C.F.R. § 1.131

15 As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled
 20 "System and Method for Securely Downloading Firmware to Storage Devices and Managing Devices in a Client Server Architecture," as identified above.

The invention was conceived and reduced to practice in the United States prior to May 5, 1998, the earliest of the filing dates of U.S. Patent No. 6,438,643 to Ohara et al, U.S. Pat No. 6,694,376 to Ohara et al, and U.S. Pat
 25 No. 6,105,066 to Hayes Jr. et al. Attached to this declaration is a redacted invention disclosure document, which predates the filing date of the two Ohara patents and the Hayes Patent. The attached declaration establishes inventive and reduction to practice dates prior to May, 5 1998.

All statements made herein of my own knowledge are true, and all
 30 statements made on information and belief are believed to be true. Further,

Lee & Hayes, PLLC

1 of 3

200308240-1

these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued

5 therefrom.

Full name of inventor: Suban G. Krishnamoorthy

Inventor's Signature:

Suban G. Krishnamoorthy

Date:

10/4/03

10 Residence:

29 Pal Drive, Shrewsbury, MA 01545

Citizenship:

India

Full name of inventor:

John R. Graham

15 Inventor's Signature:

Date:

Residence:

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Lunenburg, MA 01462

Citizenship:

US Citizen

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Full name of inventor: Charles A. Stoneham

Inventor's Signature: _____

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10 Full name of inventor: James S. Doucette

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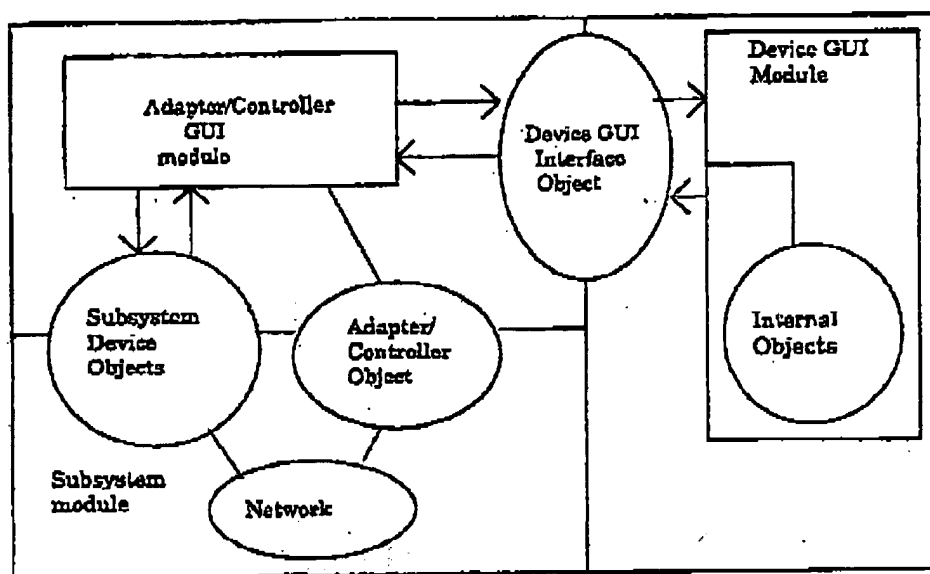
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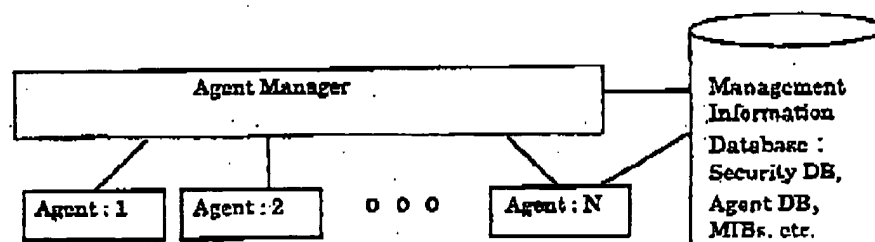
1. **Contributor(s) Information:** (For each person who conceived any part of the invention, please provide the following information. Identify which contributor should be the primary contact for further information. Inventorship will be determined by the attorney who files the patent application.)

Suban Krishnamoorthy
Charles Stoneham
John Graham
Jim Doucette

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COMMAND	CAP VARIABLE
SCSI BUS RESET	0x01
BUS DEVICE RESET	0x02
TEST UNIT READY	0x03
REQUEST SENSE	0x04
READ CAPACITY	0x05
REZERO / REWIND	0x06
FORMAT UNIT (Default-> P-List Only)	0x07
FORMAT UNIT (Both P-List and G-List)	0x08
INQUIRY - DEFAULT	0x09
INQUIRY - EYPD - PAGE 00	0x0A
INQUIRY - EYPD - PAGE 01	0x0B
INQUIRY - EYPD - PAGE 02	0x0C
INQUIRY - EYPD - PAGE 03	0x0D
INQUIRY - EYPD - PAGE 80	0x0E
INQUIRY - EYPD - PAGE 81	0x0F
INQUIRY - EYPD - PAGE 82	0x10
INQUIRY - EYPD - PAGE C0	0x11
INQUIRY - EYPD - PAGE C1	0x12
INQUIRY - EYPD - PAGE C2	0x13
INQUIRY - EYPD - PAGE C3	0x14
RESERVE	0x15
RELEASE	0x16
MODE SELECT (6 Byte) - ALL PAGES	0x17
MODE SELECT (10 Byte) - ALL PAGES	0x18
MODE SENSE (6 Byte) - ALL PAGES	0x19
MODE SENSE (10 Byte) - ALL PAGES	0x1A
START UNIT (IMMEDIATE)	0x1B
START UNIT	0x1C
STOP UNIT (IMMEDIATE)	0x1D
STOP UNIT	0x1E
PREVENT MEDIUM REMOVAL	0x1F
ALLOW MEDIUM REMOVAL	0x20
WRITE BUFFER (Mode 4)	0x21

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COMMAND	CAP VARIABLE
"Please input Decryption Password for this ACIF file"	0xA0
"Scanning BUS - Please wait"	0xA1
"Firmware Update IS REQUIRED"	0xA2
"Firmware Update IS NOT REQUIRED"	0xA8
"MODE Page Update IS REQUIRED"	0xA4
"MODE Page Update IS NOT REQUIRED"	0xA5
*** DO NOT DISTURB - FIRMWARE DOWNLOAD IN PROGRESS - System Data WILL be retained ***	0xA6
*** DO NOT DISTURB - FIRMWARE DOWNLOAD IN PROGRESS - System Data WILL NOT be retained	0xA7
*** DOWNLOAD SUCCESSFUL ***	0xA9
*** DOWNLOAD FAILED ***	0xA9
"Now Updating MODE Pages"	0xAA
"MODE Update **SUCCESSFUL**"	0xAB
"MODE Update **FAILED**"	0xAC
"Drive will require REFORMAT after code load"	0xAD
Now Auto-FORMATTING - Please wait... This may take up to 1 hour or more to complete."	0xAE
"FORMAT **SUCCESSFUL**"	0xAF
"FORMAT **FAILED**"	0xB0
"Wait for Drive LED to turn OFF"	0xB1
*** You must now turn the device power OFF to complete the download process ***	0xB2
"To complete your update, create a label marked Rev [current rev, I.E. C01] and attach to drive"	0xB3
"System Pause - hit any key to continue"	0xB4
"Please wait..."	0xB5

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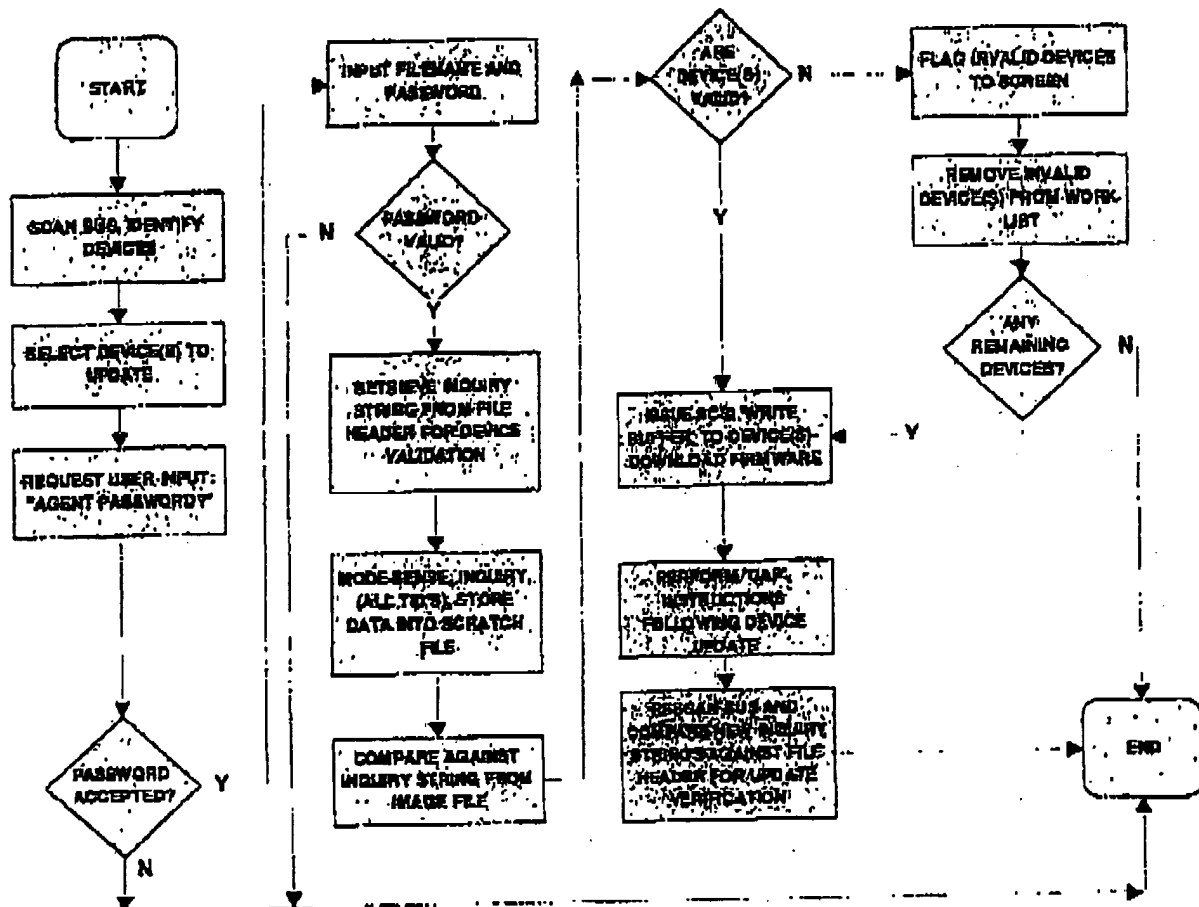
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WRITE BUFFER (Mode 5)	0x22
WRITE BUFFER (Mode 6)	0x23
WRITE BUFFER (Mode 7)	0x24

COMMAND	CAP VARIABLE
MAKE 6-BYTE CDB	0x81
MAKE 10-BYTE CDB	0x82
MAKE 12-BYTE CDB	0x83
SPECIFY WRITE BUFFER OFFSET SIZE (3-BYTE DESCRIPTOR TO FOLLOW)	0x8E
POINT TO OFFSET IN BUFFER	0x8F
SPECIFY IMAGE SIZE (8-BYTE DESCRIPTOR TO FOLLOW)	0x90
WAIT DELAY 5 SECONDS	0x91
WAIT DELAY 10 SECONDS	0x92
WAIT DELAY 20 SECONDS	0x93
WAIT DELAY 30 SECONDS	0x94
WAIT DELAY 60 SECONDS	0x95
WAIT DELAY 90 SECONDS	0x96
WAIT DELAY 120 SECONDS	0x97

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Header Size	Header Rev	Vendor ID	Product ID	FW Rev	Encrypted Password	Comment	FW Length	Firmware Image
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